## GridPort Tutorial

Stephen Mock, Kurt Mueller,

Maytal Dahan

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#### Intro

- Everybody's got a pretty good idea of the hotpage and gridport architecture
- This talk will tell more of where gridport curretly stands, where it is heading, and provide an example of how we use it
- I'm working on 8 hours of sleep for over 48 hours, and just wrote this talk this morning...so be kind



### Outline

- Gridport installation
  - Current state
  - Location for download
  - GridPort Installation
  - Session info handling
  - API
- Hotpage installation
  - Hotpage examples



### GridPort State

- Perl libraries in the current release
- Working on Perl modules
  - All cool object oriented stuff Perl
  - Expect modules release very soon (like in the next month or so)
  - This will evolve to a perl CoG
- Requires globus client tools now
- Hopefully eventually 100% perlimplementation
- Starting to work with java for some parts as well...



## GridPort Download

- Version 0.9b tarball available
- http://gridport.npaci.edu/downloads



#### GridPort Installation

- Download tarball
- Untar into install location
- Check permissions
- Read README files
- Edit/Create config files
- Start using gridport
- We need an install script



# Session Handling

- Sessions handled via cookies containing random strings which are associated with a session file which contains the username + other stuff
- Cookie:
  - s=1eaeac9c4b3546d63da04562c200d5f2
- Session file 1eaeac9c4b3546d63da04562c200d5f2:

9213425::mock::132.249.200.5::hotpage

(unixtime::user::ip-address::portal)



# Rough GridPort API

- Not exact API...gives you the idea
- Authentication
  - Login, Logout, Myproxy\_login,
     check\_authentication, get\_username...
- Globus
  - Globusrun, globus\_job\_submit, job\_cancel, get\_output
  - File\_transfer (w/GASS)
- Storage Resource Broker (SRB)
  - Get, put...? In its infancy because SRB is just starting to become GSI enabled



## HotPage Installation

- HotPage installation
  - Untar, config, etc...
- Contains the interactive tools which submit jobs, manipulate files, and stuff like that

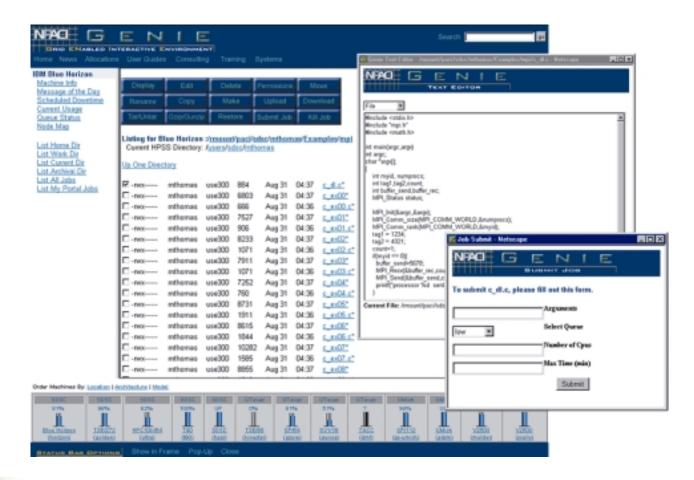


# HotPage GridPort Example

• Example 'code' for listing dir



# Example cont.





#### To Do:

- Make some useful documentation
- Better error handling
- Finish perl modules
- 100% pure perl implementation
- Make into a CoG



#### Contacts and Stuff

- HotPage https://hotpage.npaci.edu
- Gridport https://gridport.npaci.edu
- Mary Thomas
  - mthomas@sdsc.edu
- Stephen Mock
  - mock@sdsc.edu
- Kurt Mueller
  - kurt@sdsc.edu
- Maytal Dahan
  - mdahan@sdsc.edu

